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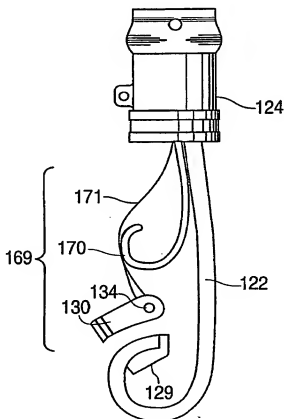
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(54) Title: PROSTHETIC FOOT WITH TUNABLE PERFORMANCE



(57) Abstract: A system for a lower extremity prosthesis comprising a foot, an ankle and a shank, has a posterior calf device (169) on the prosthesis to store energy during force loading of the prosthesis and return the stored energy during force unloading to increase the kinetic power generated for propulsive force by the prosthesis in gait. The device in several embodiments includes at least one elongated member (171) such as a flexible strap extending between an upper portion of the shank and a lower portion of the prosthesis, and at least one coiled spring (170) which has a free end connected to the elongated member. The coiled spring is expanded by the elongated member in response to anterior movement of the upper end of the shank for storing energy.

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